

Course syllabus

ANS 3251 - Biology and Management of Dairy Cattle (section 4634)

Tuesday and Thursday, 4th period (10:40 – 11:30 AM), classroom 151 (ANS Bldg.), 2 credits

Course Description

This survey course offers a deeper understanding of the biology of dairy cattle and the interrelationship between biology and management. Topics: dairy industry, nutrition, reproduction, genetics, behavior, diseases, young stock, facilities, lactation, milking procedures, milk quality, management, economics, and environmental impact of dairy production. It is appropriate for upper-level undergraduate students seeking to improve their knowledge of dairy cattle, biology, and management.

Prerequisite

None, but the course builds upon some basic understanding of physiology, nutrition, reproduction, and genetics.

Course Goals

Students will develop a better understanding of the biology of dairy cattle and the interaction between biology and management as it relates to dairy production in Florida and the USA.

Instructor

Dr. Albert De Vries, Room 104F in the Dairy Science building, devries@ufl.edu, (352) 392-5594 (ext. 227). Office hours are Tuesday and Thursday 11:30 AM- 12:30 PM (the hour after class), or when mutually convenient. The instructor decides in all cases not covered in this syllabus. Several guest instructors will present some of the material.

Teaching Assistant

Carry Pattamanont, Room 104B in the Dairy Science building, ppattamanont@ufl.edu. Office hours Monday 4:00-5:00 PM and Tuesday 11:35 AM-1:30 PM.

Class Attendance

Requirements for class attendance and make-up quizzes, tests, other work are consistent with university policies that can be found at: <https://catalog.ufl.edu/ugrad/current/regulations/info/attendance.aspx>. Make-ups need to be requested within one week of the original due date. Class attendance is highly encouraged but not required. All material assigned or discussed in class is subject for examination, but not all discussed material will have printed materials. We'll use a combination of PowerPoint slides, video, assigned readings and the black board as aids. Use of cell phones is not allowed during class time, unless we give you permission.

Course Website and Communication

The course website is through <http://elearning.ufl.edu>. We will use the website to post materials, on-line quizzes and grades. PowerPoint slides will be posted on the website at least 24 hours before the lecture in which they are used. If we do not post the slides in time, then we'll bring printed copies of the slides to class. PowerPoint slides may be complete or incomplete where you have to fill in the blanks. Make sure you set your <http://elearning.ufl.edu> settings to receive emails and announcements related to this course as soon as possible.

Text and Material Covered

Readings will be assigned. All required readings and materials presented and discussed in class are subject for evaluation in quizzes and tests.

Grading

- 25% Quizzes: Approximately 13 online quizzes will be given. Each quiz is weighted equally. A missed quiz results in a 0% score. Details about quizzes will be announced in class and on <http://elearning.ufl.edu>.
- 75% Tests: Three tests with short answer questions will be given in class. Each test counts for 25%. Tests are not comprehensive. Correct English grammar in your answers is part of the score.
- 2%: Bonus one. Print and turn in a clear recent picture of you and briefly answer these questions: 1) your name and hometown, 2) what you want to do professionally after UF, 3) your experience with dairy cattle, 4) one of your hobbies or passions in life, 5) ANS courses you have completed, 6) ANS courses you are taking this semester. Due date January 31, 2017.
- 1%: Bonus two. All students receive a 1% bonus if at least 75% of you complete the course evaluation at the end of the course.
- For information on current UF policies for assigning grade points, see <https://catalog.ufl.edu/ugrad/current/regulations/info/grades.aspx>.

Grading scale:

Grade	Score	Grade	Score
A	(93-100%)	C	(69-72%)
A-	(89-92%)	C-	(65-68%)
B+	(85-88%)	D+	(61-64%)
B	(81-84%)	D	(57-60%)
B-	(77-80%)	D-	(53-56%)
C+	(73-76%)	E	(<53%)

Online Course Evaluation Process

Student assessment of instruction is an important part of efforts to improve teaching and learning. At the end of the semester, students are expected to provide feedback on the quality of instruction in this course using a standard set of university and college criteria. These evaluations are conducted online at

<https://evaluations.ufl.edu>. Evaluations are typically open for students to complete during the last two or three weeks of the semester; students will be notified of the specific times when they are open. Summary results of these assessments are available to students at <https://evaluations.ufl.edu/results>.

Academic Honesty

As a student at the University of Florida, you have committed yourself to uphold the Honor Code, which includes the following pledge: "We, the members of the University of Florida community, pledge to hold ourselves and our peers to the highest standards of honesty and integrity." You are expected to exhibit behavior consistent with this commitment to the UF academic community, and on all work submitted for credit at the University of Florida, the following pledge is either required or implied: "On my honor, I have neither given nor received unauthorized aid in doing this assignment." It is assumed that you will complete all work independently in each course unless the instructor provides explicit permission for you to collaborate on course tasks (e.g. assignments, papers, quizzes, exams). Furthermore, as part of your obligation to uphold the Honor Code, you should report any condition that facilitates academic misconduct to appropriate personnel. It is your individual responsibility to know and comply with all university policies and procedures regarding academic integrity and the Student Honor Code. Violations of the Honor Code at the University of Florida will not be tolerated. Violations will be reported to the Dean of Students Office for consideration of disciplinary action. For more information regarding the Student Honor Code, please see: <http://www.dso.ufl.edu/sccr/process/student-conduct-honor-code>.

Software Use

All faculty, staff and students of the university are required and expected to obey the laws and legal agreements governing software use. Failure to do so can lead to monetary damages and/or criminal penalties for the individual violator. Because such violations are also against university policies and rules, disciplinary action will be taken as appropriate.

Campus Helping Resources

Students experiencing crises or personal problems that interfere with their general well-being are encouraged to utilize the university's counseling resources. The Counseling & Wellness Center provides confidential counseling services at no cost for currently enrolled students. Resources are available on campus for students having personal problems or lacking clear career or academic goals, which interfere with their academic performance.

- University Counseling & Wellness Center, 3190 Radio Road, 352-392-1575, www.counseling.ufl.edu/cwc/
 - Counseling Services, Groups and Workshops, Outreach and Consultation, Self-Help Library, Training Programs, Community Provider Database.
- Career Resource Center, First Floor JWRU, 352-392-1601, www.crc.ufl.edu
- U Matter We Care, www.umatter.ufl.edu

Students with Disabilities

The Disability Resource Center coordinates the needed accommodations of students with disabilities. This includes registering disabilities, recommending academic accommodations within the classroom, accessing special adaptive computer equipment, providing interpretation services and mediating faculty-student disability related issues. Students requesting classroom accommodation must first register with the Dean of Students Office. The Dean of Students Office will provide documentation to the student who must then provide this documentation to the Instructor when requesting accommodation. Information: 0001 Reid Hall, 352-392-8565, www.dso.ufl.edu/drc/

ANS 3251 – Biology and Management of Dairy Cattle - T, R: 4th period (10:40 – 11:30 AM) – Spring 2017

Lect#	Date	Day	Topic	Instructor
1	1/5	R	Introduction to course, history of dairy industry	De Vries
2	1/10	T	History of dairy industry, dairy production cycle	De Vries
3	1/12	R	Dairy production cycle	De Vries
4	1/17	T	Lactation physiology	De Vries
5	1/19	R	Milk production, lactation curves, measurements	De Vries
6	1/24	T	Milking equipment	De Vries
7	1/26	R	Mastitis, milk quality	De Vries
8	1/31	T	Nutrition and growth: calves	Arriola
9	2/2	R	Nutrition and growth: heifers	Arriola
10	2/7	T	Nutrition and growth: heifers, cows	Arriola
11	2/9	R	Test 1	Pattamanont
12	2/14	T	Nutrition and growth: cows	Arriola
13	2/16	R	Nutrition and growth: cows	Arriola
14	2/21	T	Metabolic diseases	De Vries
15	2/23	R	Facilities	De Vries
16	2/28	T	Environmental physiology, heat stress	Hansen
17	3/2	R	Environmental physiology, heat stress	Hansen
			<i>Spring break March 4-12, no classes</i>	
18	3/14	T	Facilities	De Vries
19	3/16	R	Facilities, welfare	De Vries
20	3/21	T	Test 2	Pattamanont
21	3/23	R	Estrus cycle, hormones, anestrus	De Vries
22	3/28	T	Estrus detection, bulls, AI,	De Vries
23	3/30	R	Estrus synchronization programs	De Vries
24	4/4	T	Sexed semen, embryo transfer, measures, economics	De Vries
25	4/6	R	Genetics, classification, heritability, PTA	De Vries
26	4/11	T	Selection index, genomics, economics	De Vries
27	4/13	R	Environmental impact of dairy production	Pattamanont
28	4/18	T	Grazing, organic production	De Vries
	4/24	M	Test 3 (24C: 12:30 PM to 2:30 PM). Location TBA	De Vries